

ABSTRACTSILANE CROSSLINKABLE POLYETHYLENE

5 Crosslinkable or crosslinked polymer compositions are provided, the
compositions including a copolymer of ethylene and C₃ to C₁₂ alpha-olefin
comonomer, the copolymer having a CDBI of at least 70%, a melt index I_{2.16} of
from 0.1 to 15 g/10 min, a density of from 0.910 to 0.940 g/cm³, a melt index ratio
I_{21.6}/I_{2.16} of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5; and a silane
10 grafting composition including a silane compound and a free radical initiator; or
reaction products thereof. The crosslinkable or crosslinked compositions are
particularly suitable for electrical applications, such as in insulating,
semiconducting or jacketing layers of power cables, telecommunications cables,
and combined power/telecommunications cables.